Public Notice

US Army Corps of Engineers
Nashville District

Public Notice No. **04-70** Date: **December 22, 2004**

Application No. **200401779**

Please address all comments to:
Nashville District Corps of Engineers, Regulatory Branch
3701 Bell Road, Nashville, TN 37214

JOINT PUBLIC NOTICE
US ARMY CORPS OF ENGINEERS
TENNESSEE VALLEY AUTHORITY
AND
STATE OF TENNESSEE

SUBJECT: Proposed Discharge of Fill Material Associated with Impoundment Structure on Unnamed Tributary Mile 0.6, a tributary to Tennessee River Mile 197.4L, McNairy County, Tennessee

TO ALL CONCERNED: The application described below has been submitted for a Department of the Army Permit pursuant to **Section 404 of the Clean Water Act** (CWA) for the discharge of fill material into waters of the United States, and a Tennessee Valley Authority (TVA) permit pursuant to **Section 26a of the TVA Act.** Before a permit can be issued, certification must be provided by the state of Tennessee, Department of Environment and Conservation, pursuant to **Section 401(a)(1) of the CWA**, that applicable water quality standards will not be violated. By copy of this notice, the applicant hereby applies for the required certification.

APPLICANT: Bill Hawkins
3405 Pearson Road
Memphis, Tennessee 38118

LOCATION: Unnamed Tributary Mile 0.6, a tributary to Owl Creek, a tributary to Tennessee River Mile 197.4L, in McNairy County, Tennessee (Michie Quad, lat 35-6-40.5360, lon 88-25-30.4480)

DESCRIPTION: The proposed work consists of the discharge of fill material into an Unnamed Tributary for construction of an impoundment structure. The impoundment structure would involve placement of fill material into approximately 265' of the Unnamed Tributary. A 36" diameter riser pipe with 24" diameter outfall pipe would be installed at the impoundment structure to release water downstream. The impoundment structure would be constructed with a maximum height of 35', with an upstream slope of 3:1 and downstream slope of 4:1. The water elevation would be Elevation 466.0', for a maximum water depth of 32', which allows 4' free board from the top of the impoundment structure Elevation 470.0'. The impoundment structure

would consist of a 20' crest width and 850' crest length. The normal pool of the structure would consist of a 47 surface-acre reservoir, which would impound approximately 7,625 linear-feet of two unnamed tributaries. The unnamed tributaries are very small during the summer months, with perennial and intermittent sections. The flow of the unnamed tributaries would be relocated through a 12" diameter pipe during construction. Upon completion of construction, this 12" diameter pipe would also serve as an emergency drawdown facility. An emergency spillway would be constructed, at Elevation 468.0, which is 2' below the top of the impoundment structure.

The applicant has proposed mitigation to offset impacts associated with the impoundment of the unnamed tributaries. According to the "Stream Mitigation Guidelines for the state of Tennessee", an impoundment is classified as Type II Degradation, requiring mitigation for 75% of the total length of stream impounded. The applicant has proposed mitigation for 75% of the proposed 7,625 linear-feet of stream to be impounded. Therefore, mitigation would be required for approximately 5,720 linear-feet of stream. The applicant has numerous of other streams/unnamed tributaries on his property that has been impacted in the past through agricultural practices. The applicant proposes restoration to four unnamed tributaries through various measures such as restoring the current channels to natural, stable conditions, replacing or removing undersized culverts, and restoring riparian zones to 50' on both sides of the channels. The restored riparian zones would include planting native vegetation and would be protected under a conservation easement (100' wide, 50' from center of channel) for the length of the mitigated section. The applicant's proposed mitigation plan provides for a total of 7,050 linear-feet of mitigation for the impaired streams. A more detailed mitigation plan can be provided upon request.

The purpose of the proposed work would be to allow the construction of an impoundment structure for a reservoir for recreational and/or agricultural uses by the owner. The reservoir would be for the applicant's private use and closed to the general public.

Plans of the proposed work are attached to this notice.

The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics; general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. In addition, the evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection

Agency, under authority of Section 404(b)(1) of the CWA (40 CFR Part 230). A permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

An Environmental Assessment will be prepared by this office prior to a final decision concerning issuance or denial of the requested Department of the Army Permit.

The National Register of Historic Places has been consulted and no properties listed in or eligible for the National Register are known which would be affected by the proposed work. This review constitutes the full extent of cultural resources investigations unless comment to this notice is received documenting that significant sites or properties exist which may be affected by this work, or that adequately documents that a potential exists for the location of significant sites or properties within the permit area. Copies of this notice are being sent to the office of the State Historic Preservation Officer.

Based on available information, the proposed work will not destroy or endanger any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act. Therefore, we have reached a no effect determination and initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Other federal, state, and/or local approvals required for the proposed work are as follows:

a. Tennessee Valley Authority (TVA) approval under Section 26a of the TVA Act. In addition to other provisions of its approval, TVA would require the applicant to employ best management practices to control erosion and sedimentation, as necessary, to prevent adverse aquatic impacts.

b. Water quality certification from the state of Tennessee, in accordance with Section 401(a)(1) of the Clean Water Act.

c. The state of Tennessee, Department of Safe Dams, would need to review and approve the proposed impoundment structure.

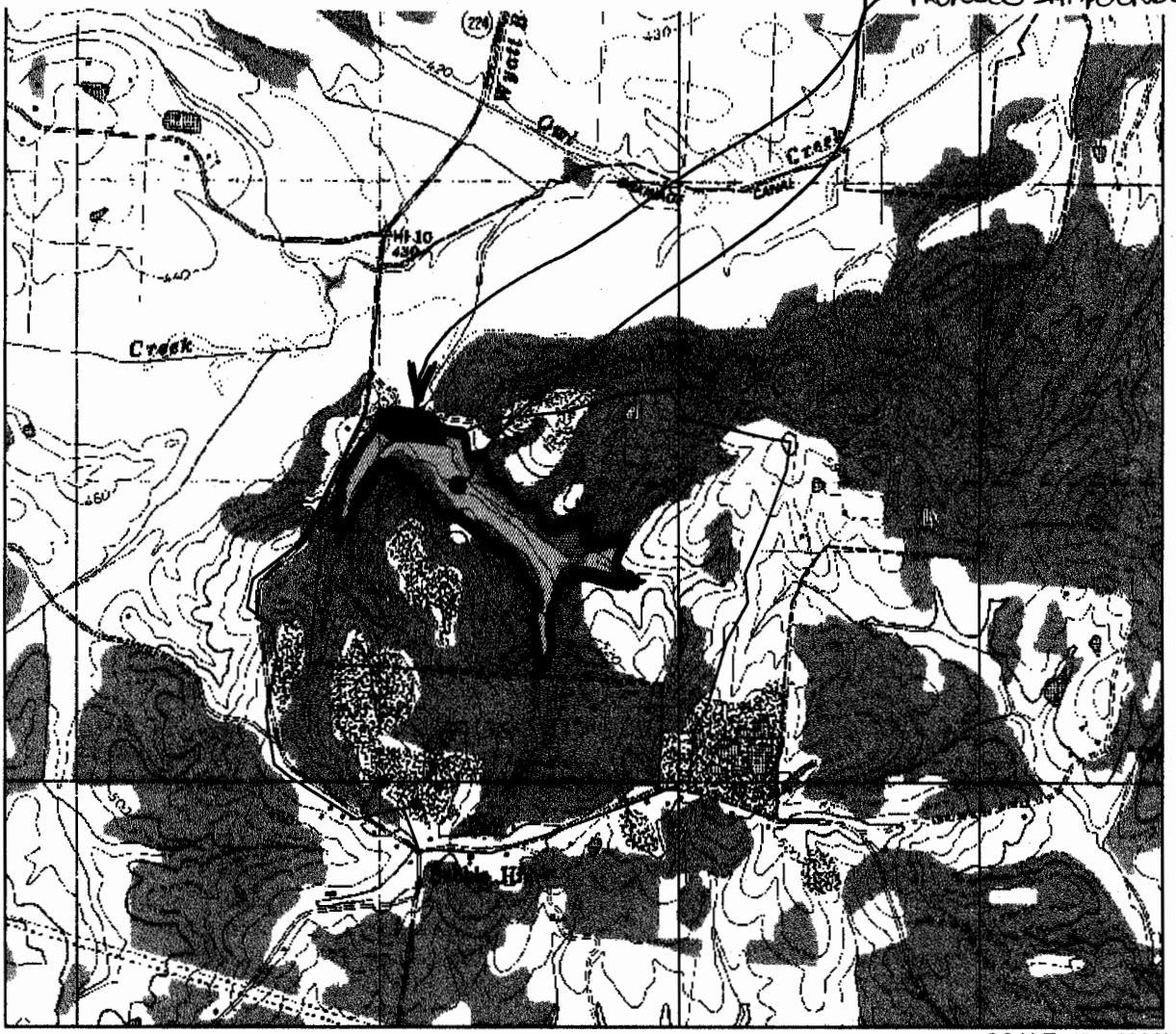
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

Written statements received in this office on or before January 22, 2005, will become a part of the record and will be considered in the determination. Any response to this notice should be directed to the Regulatory Branch, Attention: Amy Robinson at the above address, telephone (615) 369-7509. It is not necessary to comment separately to TVA and/or TDEC since copies of all comments will be sent to the agencies and will become part of their records on the proposal. However, if comments are sent to TVA, they should be mailed to Mr. Randy Lowe, Tennessee Valley Authority, Kentucky Watershed Team, P.O. Box 280, Paris, Tennessee 38242-0280. Comments can be sent to Mr. Robert Baker, TDEC, Division of Water Pollution Control, 7th Floor, L&C Annex, 401 Church Street, Nashville, Tennessee 37243-1534.

MICHIE QUADRANGLE - TENNESSEE
7.5 MINUTE SERIES (TOPOGRAPHIC) 13-SW
1972
Photorevised

PROPOSED IMPOUNDMENT STRUCTURE

PROPOSED IMPOUNDED AREA



SCALE: 1" = 2000'

HAWKINS DAM
McNairy Co., TN

LEGEND

---------- Property Boundary
———— Drainage Area
---------- Reservoir Surface Area

Owner: Mr. Bill Hawkins
3405 Pearson Road
Memphis, TN 38118

PROJECT INFORMATION

Height of Dam (ft): 32
Crest Length (ft): 850
Crest Width (ft): 20
Drainage Area (acres): 500
Reservoir Surface Area (acres/normal pool): 47

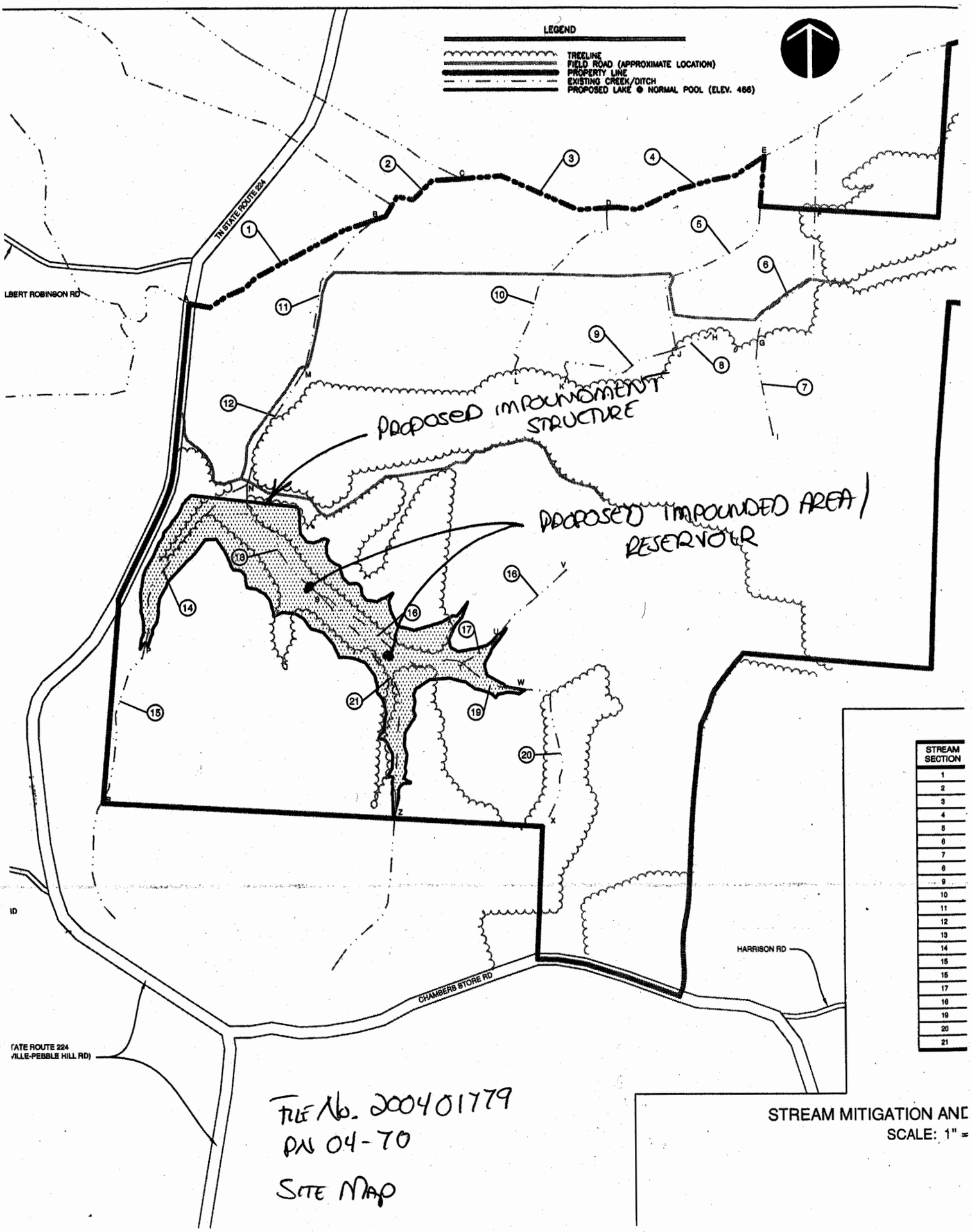
Dam center line: Latitude - 35°06'42.8"
Longitude - 88°25'31.5"

DRAWN BY: MSC
DATE: 8/23/04
DWG. NO.:
APPROVED BY:

SCOTT ENGINEERING
1530 Polk St. Corinth MS 38834 (662) 287-2436

File Path: SERVER C:\Scott Engineering\Design Projects\Hawkins DAM McNairy Co\Documents\TDECquad.DWG

FILE No. 200401779
PN 04-70



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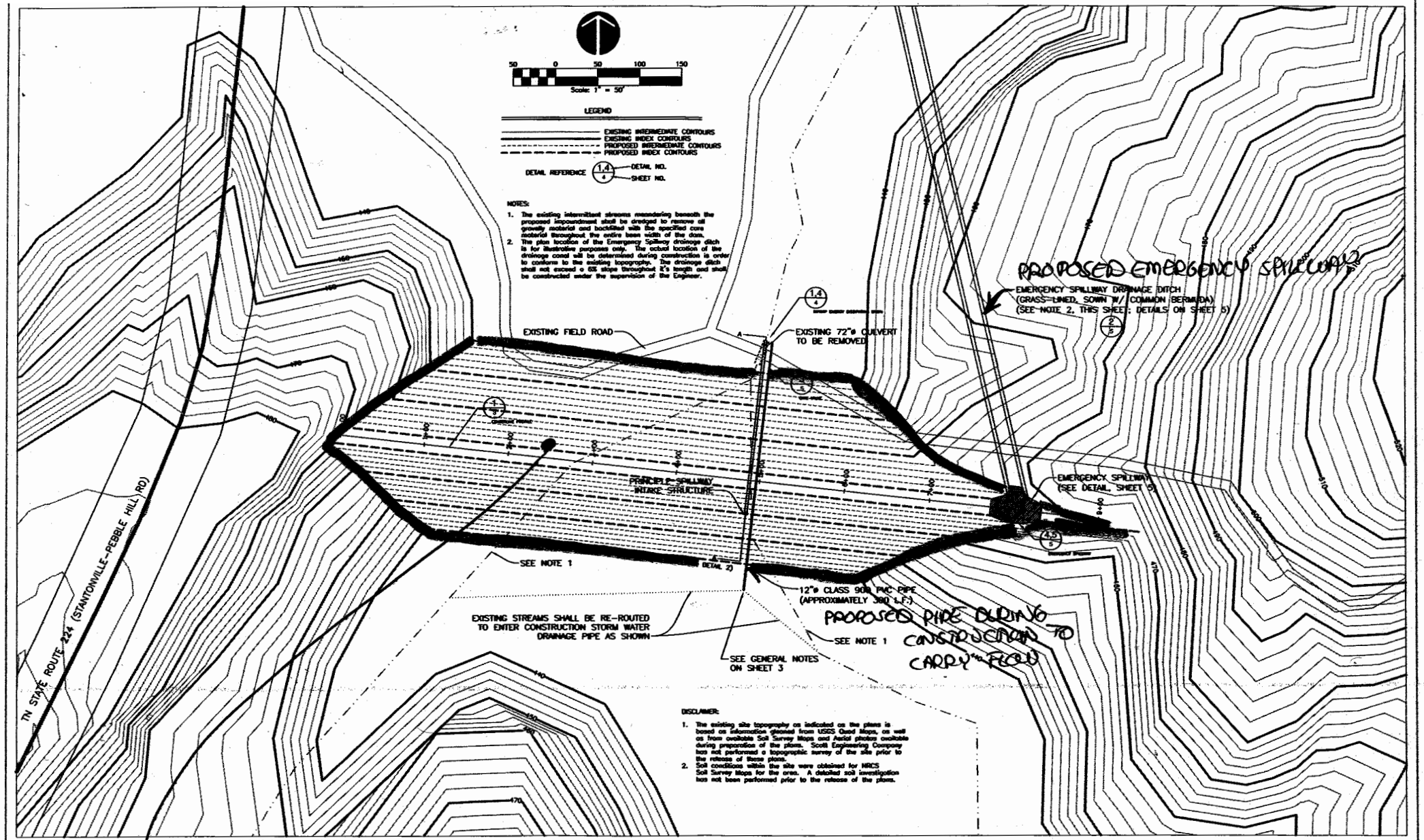
Site Map



PROPOSED IMPOUNDMENT STRUCTURE

FILE No. 200401779
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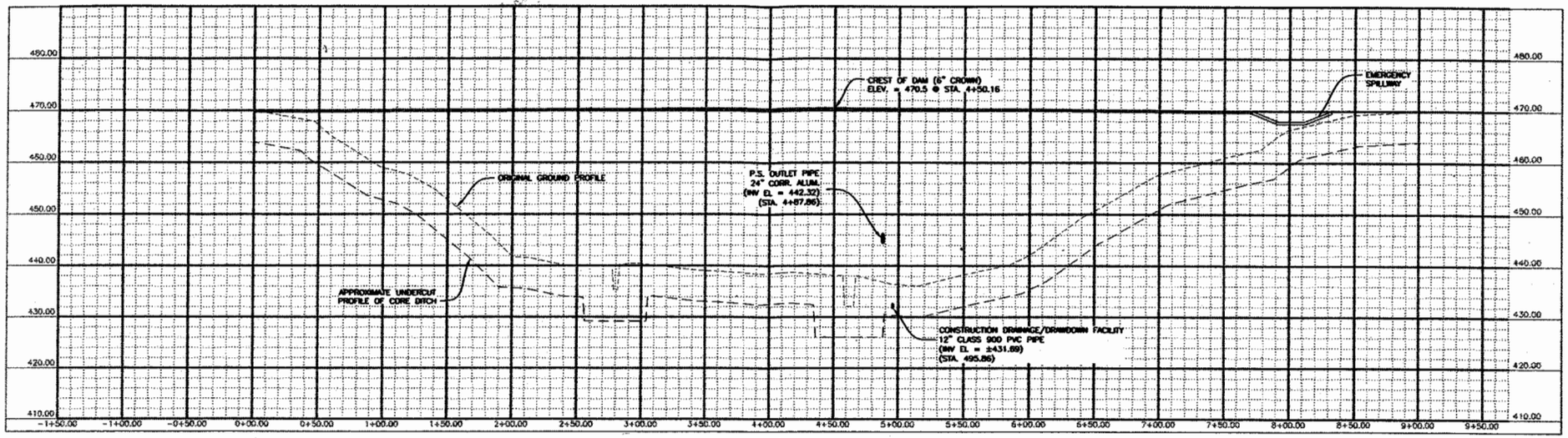
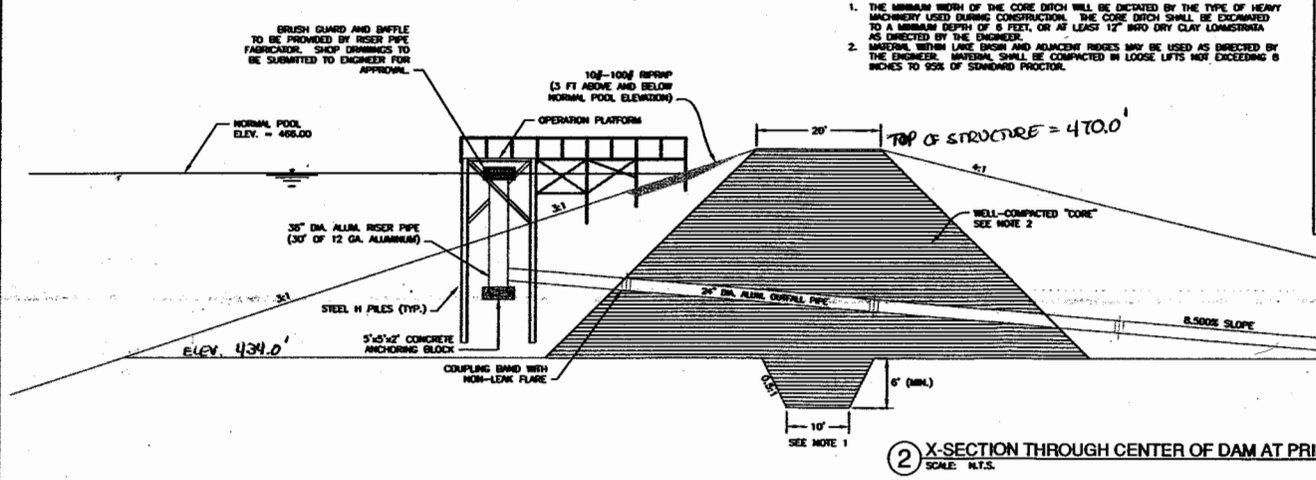


1 CENTERLINE PROFILE OF DAM
SCALE: 1" = 40' (HORIZONTAL)
1" = 10' (VERTICAL)



NOTES:
1. THE MINIMUM WIDTH OF THE CORE DITCH WILL BE DICTATED BY THE TYPE OF HEAVY MACHINERY USED DURING CONSTRUCTION. THE CORE DITCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 FEET, OR AT LEAST 12" INTO DRY CLAY LOAM/STRATA AS DIRECTED BY THE ENGINEER.
2. MATERIAL WITHIN LAKE BASIN AND ADJACENT RIDGES MAY BE USED AS DIRECTED BY THE ENGINEER. MATERIAL SHALL BE COMPACTED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES TO 95% OF STANDARD PROCTOR.

2 X-SECTION THROUGH CENTER OF DAM AT PRINCIPLE SPILLWAY
SCALE: N.T.S.

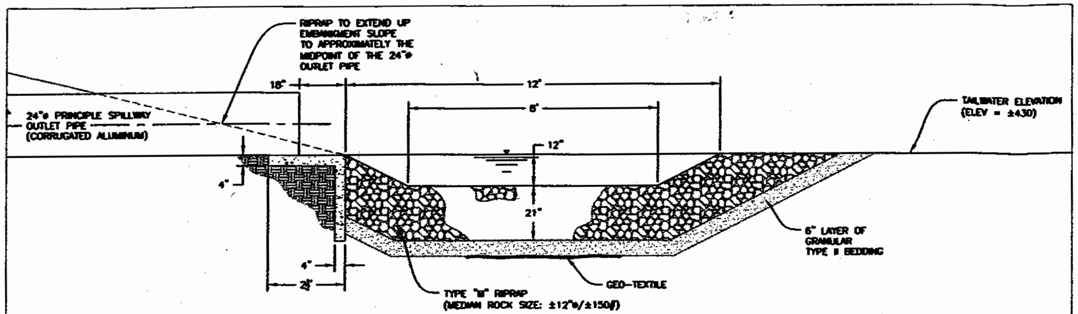
CONSTRUCTION STORM WATER DRAINAGE PIPE/EMERGENCY DRAWDOWN FACILITY

GENERAL NOTES:
1. THE CONSTRUCTION DRAINAGE PIPE (12" CLASS 900 PVC, AS INDICATED ON SHEET 2) WILL SERVE AS THE DRAWDOWN FACILITY ONCE THE DAM IS COMPLETED. THE PIPE SHALL BE INSTALLED INITIALLY AS A MEANS OF MAINTAINING A BASE FLOW DOWNSTREAM OF THE DAM DURING CONSTRUCTION AS WELL AS PREVENTING THE ACCUMULATION OF STORM WATER THROUGHOUT THE CONSTRUCTION PROCESS. ONCE THE PRINCIPLE SPILLWAY RISER IS INSTALLED, THE CONSTRUCTION DRAINAGE PIPE WILL THEN BE CONVERTED INTO THE EMERGENCY DRAWDOWN FACILITY, IN WHICH THE OUTLET OF THE 12" PVC PIPE WILL BE TURNED UPWARD AT A 90 DEGREE ANGLE FOR APPROXIMATELY 5 FEET WITH A POURED-IN-PLACE CONCRETE THRUST BLOCK PROVIDED AT THE BEND. ALL CAST IRON PIPE AND FITTINGS SHALL BE USED WITHIN THE TRANSITION AND SHALL INCLUDE THE FOLLOWING:
   1) ONE (1) 12" CLOW MODEL F-1025 CONNECTOR MJ AND FLANGE, OR EQUAL
   2) ONE (1) 12" CLOW MODEL F-804 FLANGED 90° ELBOW, OR EQUAL
   3) ONE (1) 12" CLOW MODEL F-162 FLANGED JOINT PIPE (4 FT SECTION), OR EQUAL
   4) ONE (1) 12" CLOW MODEL F-1440 FLANGE AND FLARE END SECTION, OR EQUAL
2. THE INLET OF THE CONSTRUCTION DRAINAGE PIPE SHALL BE OVEREXCAVATED TO A DEPTH OF 4 FEET, FOR PURPOSES OF SEDIMENT CONTROL.
3. AFTER COMPLETION OF THE DAM, THE GATE VALVE LOCATED WITHIN THE 12" EMERGENCY DRAWDOWN PIPE NEAR THE OUTLET, SHALL BE OPENED PERIODICALLY TO REMOVE SILT AND DEBRIS AND TO ASSURE PROPER FUNCTIONING.

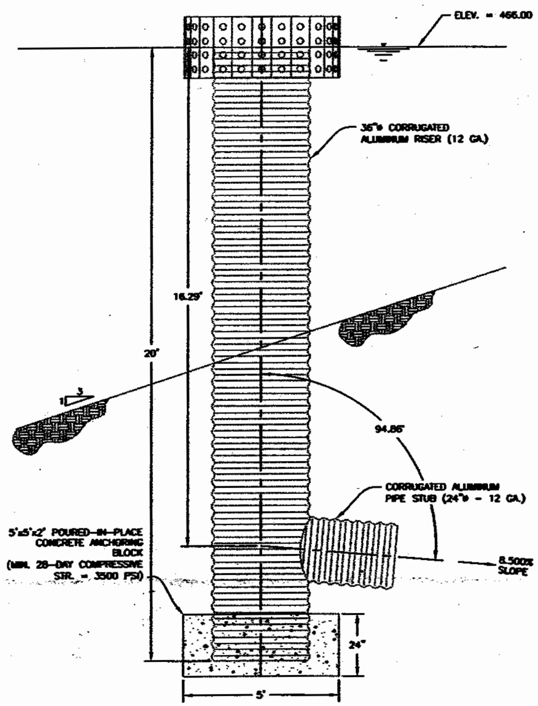
File Path: SERVER (G):\Scott Engineering\Design Projects\Hawkins DAM McNairy Co\PLANS\DaseDetails.DWG (LAYOUT: "SHEET 3")

S E	DRAWN BY: MDC DATE: 11/23/05 ENG. NO.: 04-94-3	APPROVED BY: RMH PROJ. NO. 1052 ENG.	REVISIONS	SCOTT ENGINEERING 1530 Polk St. Corinth MS 38834 (662) 287-2436	PROJECT HAWKINS' DAM - McNAIRY CO., TN PROPOSED 47-ACRE IMPOUNDMENT	SHT. NAME DETAILS	SHT. NO. 3	S E

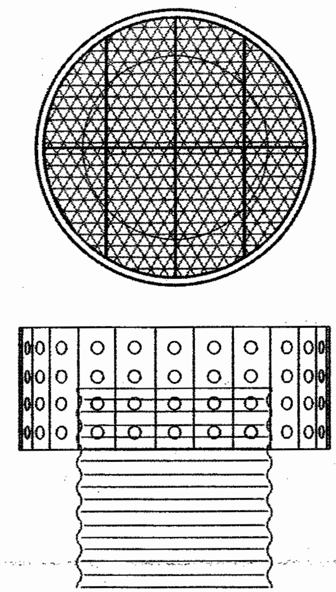
FILE No. 200401779
PN 04-70



(1) ENERGY DISSIPATING BASIN (@ PIPE OUTLET)
SCALE: 1" = 2' X-SECTIONAL VIEW

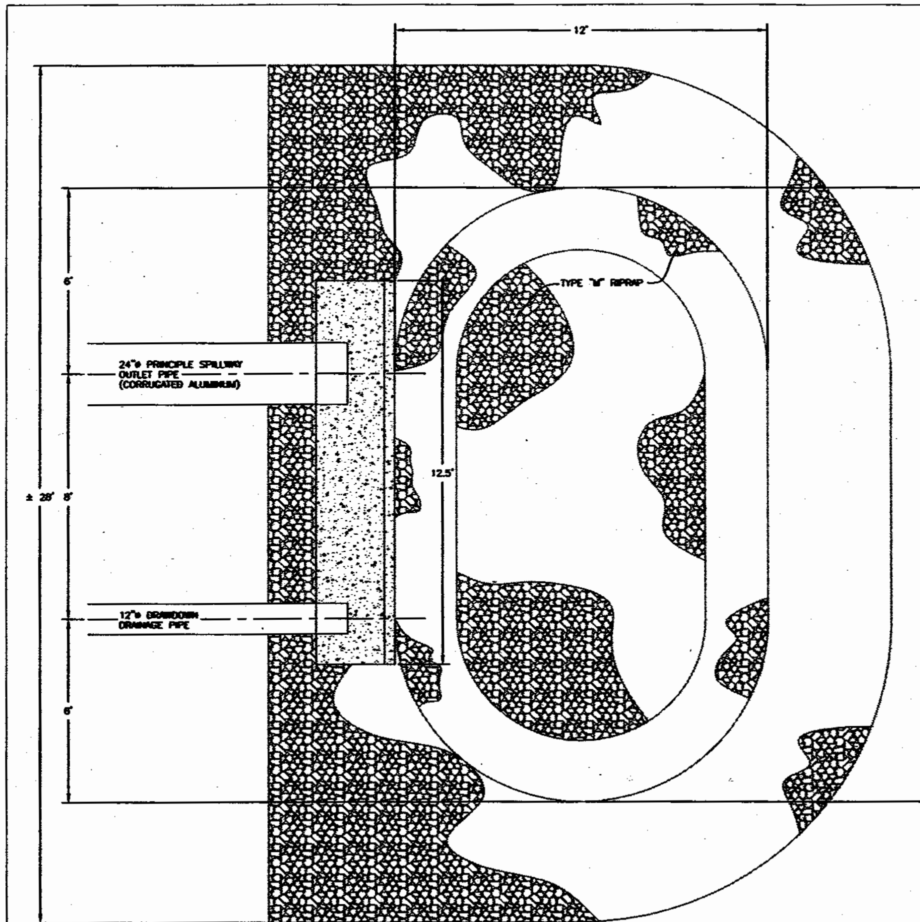


(2) PRINCIPLE SPILLWAY RISER DETAIL
SCALE: 1" = 2'



NOTE:
PRINCIPLE SPILLWAY RISER PIPE FABRICATOR SHALL SUBMIT DETAILED TRASHRACK SHOP DRAWINGS FOR ENGINEER'S APPROVAL.

(3) PRINCIPLE SPILLWAY (TRASHRACK)
SCALE: N.T.S.



(4) ENERGY DISSIPATING BASIN (@ PIPE OUTLET)
SCALE: 1" = 2' PLAN VIEW

SCOTT ENGINEERING
1530 Polk St. Corinth MS 38834 (662) 287-2436

HAWKINS' DAM - McNAIRY CO., TN
PROPOSED 47-ACRE IMPOUNDMENT

DETAILS

4

File No. 200401779
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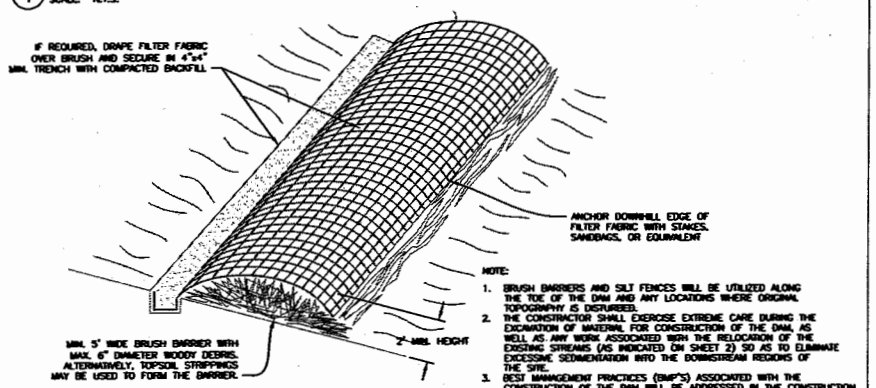
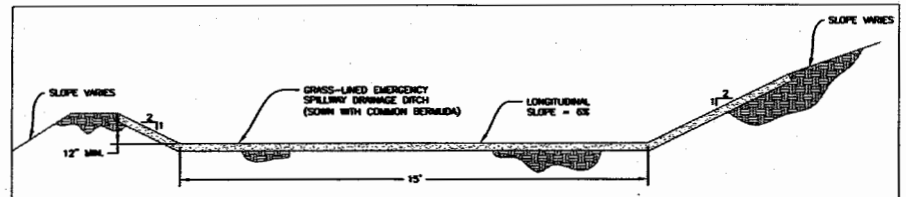
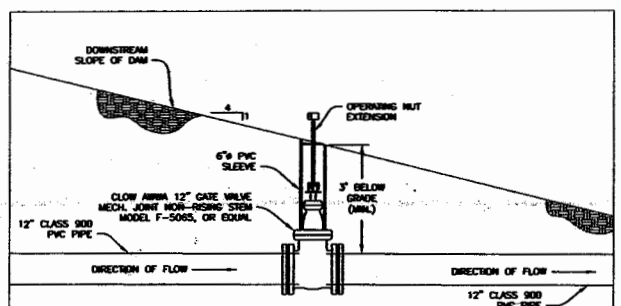
1 BRUSH BARRIER DETAIL
SCALE: N.T.S.



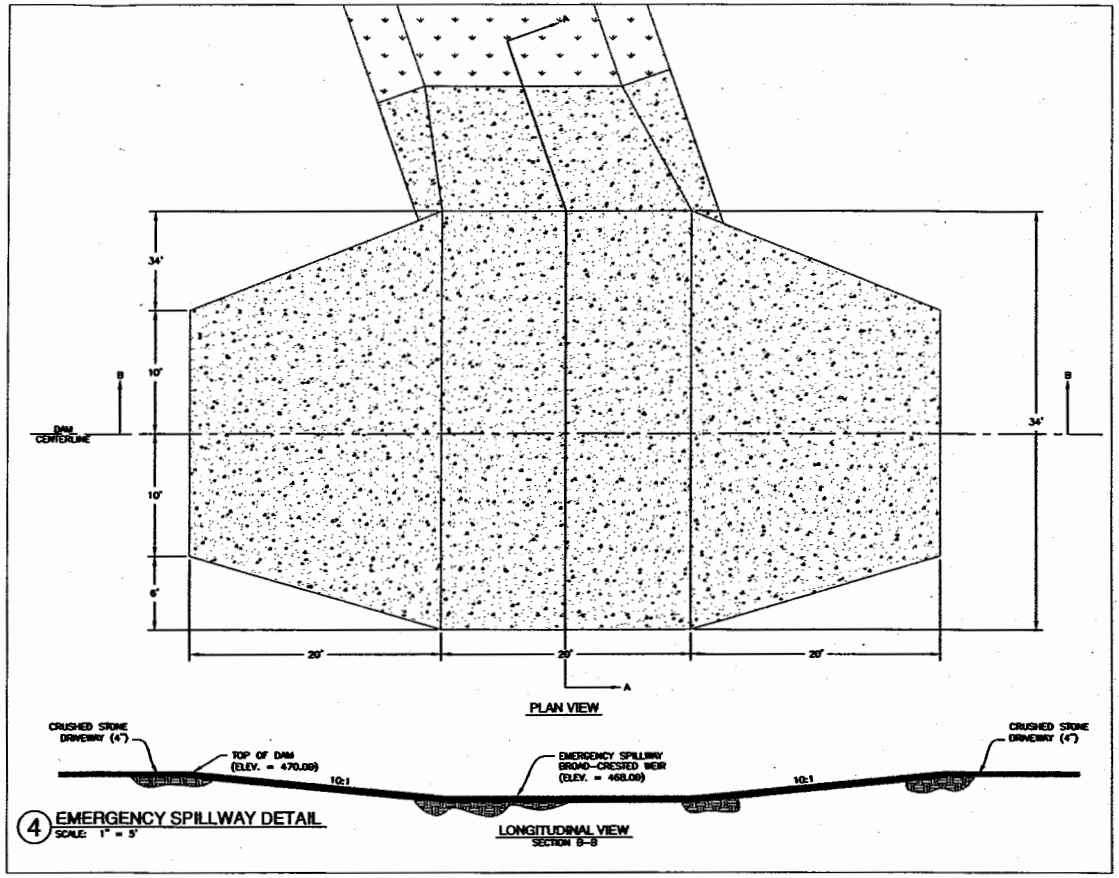
NOTE:
1. BRUSH BARRIERS AND SILT FENCES WILL BE UTILIZED ALONG THE TOE OF THE DAM AND ANY LOCATIONS WHERE ORIGINAL TOPOGRAPHY IS DISTURBED.
2. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE EXCAVATION OF MATERIAL FOR CONSTRUCTION OF THE DAM, AS WELL AS ANY WORK ASSOCIATED WITH THE RELOCATION OF THE EXISTING STREAMS (AS INDICATED ON SHEET 2) SO AS TO ELIMINATE EXCESSIVE SEDIMENTATION INTO THE DOWNSTREAM REGIONS OF THE SITE.
3. BEST MANAGEMENT PRACTICES (BMP'S) ASSOCIATED WITH THE CONSTRUCTION OF THE DAM WILL BE ADDRESSED IN THE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN MORE DETAIL.



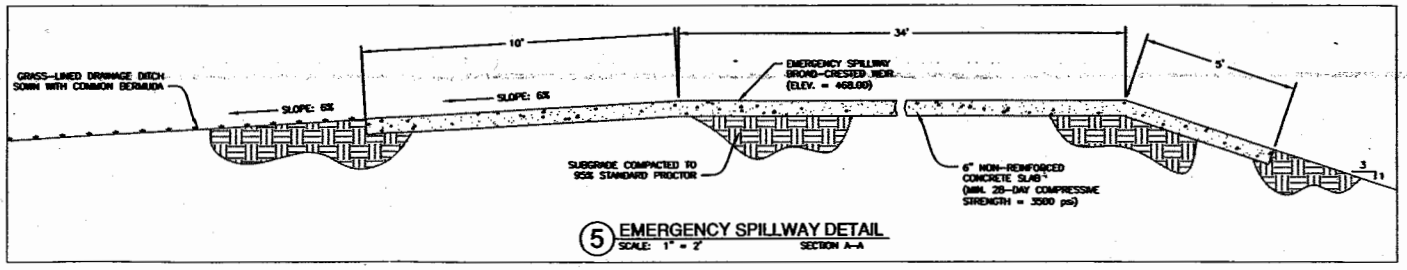
2 GRASS-LINED DRAINAGE DITCH
SCALE: N.T.S.



3 GATE VALVE (CONSTRUCTION STORMWATER DRAINAGE PIPE)
SCALE: N.T.S.



4 EMERGENCY SPILLWAY DETAIL
SCALE: 1" = 5'



5 EMERGENCY SPILLWAY DETAIL
SCALE: 1" = 2' SECTION A-A

File Path: SERVER (G):\Scott Engineering\Design Projects\Hawkins DAM-McNairy Co\PLANS\DamDetails.DWG (LAYOUT: "SHEET 5")

S E	DRAWN BY: MSC	APPROVED BY: RHDA	REVISIONS	SCOTT ENGINEERING	HAWKINS' DAM - McNAIRY CO., TN	DWG. NAME: DETAILS	DWG. NO. 5	S E
	DATE: 11/26/04	PROJ. NO. 1002		1530 Polk St. Corinth MS 38834 (662) 287-2436	PROPOSED 47-ACRE IMPOUNDMENT			
	DWG. NO.: 04-04.3	SHT.						

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PN 04-70